Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	Al	4,190,496	08/29/78	Rubenstein			
	B1	4,215,051	07/29/80	Smith			
	Cl	4,376,110	03/08/83	David et al.			
	DI	4,683,202	07/28/87	Mullis			
	El	4,873,191	10/10/89	Wagner et al.			
	Fl	4,946,778	08/07/90	Ladner et al.			
	G1	4,980,286	12/25/90	Morgan et al.			
	ні	5,075,217	12/24/91	Weber			
	I 1	5,223,409	06/29/93	Ladner et al.			
	J1	5,272,071	12/21/93	Chappel			
	KI	5,364,759	11/15/94	Caskey et al.			
	Ll	5,510,270	04/23/96	Fodor et al.			
	MI	5,514,548	05/07/96	Krebber et al.			
	NI	5,556,752	09/17/96	Lockhart et al.			
	01	5,578,832	11/26/96	Trulson et al.			
	P1	5,679,523	10/21/97	Li et al.			
	Q1	5,807,995	09/15/98	Cohen et al.			
	RI	5,849,486	12/15/98	Heller et al.			
	S1	5,858,659	01/12/99	Sapolsky et al.			
	Tl	5,891,668	04/06/99	Li et al.			
	UI	5,968,502	10/19/99	Treco et al.			
	V١	5,981,214	11/09/99	Skoultchi			
	W1	6,040,138	03/21/00	Lockhart et al.			
	ΧI	6,248,523	06/19/01	Cohen et al.			

EXAMIN	ER
--------	----

**DATE CONSIDERED** 

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

			FC	REIGN PATENT DOCUME	NTS		
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	A2	WO 88/04300	06/16/88	WIPO			
	B2	WO 90/02809	03/22/90	WIPO			
	C2	WO 91/06667	05/16/91	WIPO			
	D2	WO 91/17271	11/14/91	WIPO			
	E2	WO 92/01047	01/23/92	WIPO			
	F2	WO 92/06180	04/16/92	WIPO			
	G2	WO 92/09690	06/11/92	WIPO			
	H2	WO 92/15679	09/17/92	WIPO			
	12	WO 92/18619	10/29/92	WIPO			
<u>-</u>	J2	WO 92/20316	11/26/92	WIPO			
	K2	WO 92/20791	11/26/92	WIPO			
	L2	WO 92/22635	12/23/92	WIPO			
	M2	WO 93/01288	01/21/93	WIPO			
	N2	WO 93/14188	07/22/93	WIPO			
	O2	WO 93/20221	10/14/93	WIPO			
	P2	WO 94/08598	04/28/94	WIPO			
	Q2	WO 94/12650	06/09/94	WIPO			
	R2	WO 98/41531	09/24/98	WIPO			
•	S2	WO 99/15650	04/01/99	WIPO			
	T2	WO 03/027260	04/03/03	WIPO	-		
_	<u> </u>	OTHER	DOCUMEN	TS (Including Author, Title, Da	ate, Pertinent Pag	es, Etc.)	
	U2	Alley et al., "Feas Assay <sup>1</sup> ," Cancer F	sibility of Dru Research, Feb	ng Screening with Panels of Hur ruary 1, 1988, 48, pp. 589-601	nan Tumor Cell	Lines Using a Micro	oculture Tetrazolium
	V2	Ausubel et al., ed Wiley & Sons, Inc		rent Protocols in Molecular Bio, at p. 2.10.3	ology, Vol. I, Gre	en Publishing Asso	ciates, Inc., and John
<del></del>	W2	Bass, Brenda L., '	'Double-Stra	nded RNA as a Template for Ge	ene Silencing," <u>C</u>	ell, vol. 101, April 2	28, 2000, pp. 235-238.

F-1/ A			_
EXA	M	NE	: ٢

DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

 	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
А3	Been, Michael D. et al., "One Binding Site Determines Sequence Specificity of Tetrahymena Pre-rRNA Self-Sprlicing, Trans-Splicing, and RNA Enzyme Activity," Cell, vol. 47, October 24, 1986, pp. 207-216.
В3	Beerli, Roger R. et al, "Toward controlling gene expression at will: Specific regulation of the <i>erB-2/HER-2</i> promoter by using polydactyl zinc finger proteins constructed from modular building blocks," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 95, December 1998, pp. 14628.
C3	Beerli, Roger R. et al., "Positive and negative regulation of endogenous genes by designed transcription factors," Proc. Natl. Acad. Sci., vol. 97, no. 4, February 15, 2000, pp. 1495.
D3	Berg and Shi, "The Galvanization of Biology: A Growing Appreciation for the Roles of Zinc," Science, vol. 271, February 23, 1996, pp. 1081-1085.
E3	Berg, Jeremy M., "Letting your fingers to the walking," Nature Biotechnology, vol. 15, April 1997, p. 323.
F3	Bird, Robert E. et al., "Single-Chain Antigen-Binding Proteins," Science, October 21, 1988, pp.423-426.
G3	Bitter, Grant A. et al., "Expression and Secretion Vectors for Yeast," Methods in Enzymology, vol. 153, pp. 516-544.
Н3	Blanchard, A.P. et al., "High-density oligonucleotide arrays," Biosensors & Bioelectronics, vol. 11, no. 67, pp. 687-690.
13	Blanchard, Alan, "Synthetic DNA Arrays," Genetic Engineering, vol. 20, J.K. Setlow, Ed., Plenum Press, New York at pages 111-123.
J3	Boesen, Jan J.B. et al., "Circumvention of chemotherapy-induced myelosuppression by transfer of the mdrl gene," Biotherapy, 1994, 6:291-302.
К3	Bout, Abraham et al., "Lung Gene Therapy: In Vivo Adenovirus-Mediated Gene Transfer to Rhesus Monkey Airway Epithelium," Human Gene Therapy, 1994, 5:3-10,
L3	Brummelkamp, Thijn R. et al., "A System for Stable Expression of Short Interfering RNAs in Mammalian Cells," Science, vol. 296, April 19, 2002, pp. 550-553.
М3	Butler, J.E., "The Amplfified ELISA: Principles of and Applications for the Comparative Quantitation of Class and Subclass Antibodies and the Distribution of Antibodies and Angigens in Biochemical Separates," Methods in Enzymology, vol. 73, 1981, 482-523.
N3	Carmichael, James <i>et al.</i> , "Evaluation of a Tetrazolium-based Semiautomated Colorimetric Assay: Assessment of Chemosensitivity Testing <sup>1</sup> ," Cancer Research, February 15, 1987, 47:936-942.
О3	Chen, Jie et al., "Identification of an 11-kDa FKBP12-rapamycin-binding domain within the 289-kDa FKBP12-rapamycin-associated protein and characterization of a critical serine residue," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 92, May 1995, pp. 4947-4951.
Р3	Chien, Cheng-Ting et al., "The two-hybrid system: A method to identify and clone genes for proteins that interact with a protein of interest," Proc. Natl. Acad. Sci. USA, vol. 88, November 1991, pp. 9578-9582.
Q3	Choo Y. et al., "Promotor-specific Activation of Gene Expression Directed by Bacteriophage-selected Zinc Fingers," <u>I. Mol. Biol.</u> , 1997, 273:525-532.

EXAMINER	

DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	A4	Cline, Martin J., "Perspectives for Gene Therapy: Inserting New Genetic Inforamtion into a Mammalian Cells by Physical Techniques and Viral Vectors," <u>Pharmac. Ther.</u> , vol. 29, 1985, pp. 69-92.
	B4	Clowes, Monika M. et al., "Long-Term Biological Response of Injured Rat Carotid Artery Seeded with Smooth Muscle Cells Expressing Retrovirally Introduced Human Genes," J. Clin. Invest., vol. 93, February 1994, pp. 644-651.
	C4	Cotten, Matthew et al., "Receptor-Mediated Transport of DNA into Eukaryotic Cells," Meth. Enzymol., vol. 217, 1993, pp. 618-644.
	D4	Colberre-Garapin, Florence <i>et al.</i> , "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells," <u>J. Mol. Biol.</u> , 150:1-14.
	E4	Cote, Richard J. et al., "Generation of human monoclonal antibodies reactive with cellular antigens," Proc. Natl. Acad. Sci. USA, vol. 80, April 1983, pp. 2026-2030.
	F4	Cole, S.P.C. et al., "The EBV-Hybridoma Technique and its Application to Human Lung Cancer," Monoclonal Antibodies and Cancer Therapy, 1985, pp. 77-96.
	G4	Creighton, Thomas E., Proteins: Structures and Molecular Principles, 1983, W.H. Freeman & CO., New York, pp. 34-49.
	H4	DeRisi, Joseph <i>et al.</i> , "Use of a cDNA microarray to analyse gene expression patterns in human cancer," Nature Genetics, vol. 14, December 1996, pp. 457-460.
	I4	Dexter, T.M. et al., "Conditions Controlling the Proliferation of Haemopoietic Stem Cells in Vitro," J. Cell Physiol., 1977, pp. 335-344.
	J4	Dilling et al., "Acquired Resistance to Rapamycin is Mediated by Altered Regulation of the 4E-BPI/EIF-4E Pathway," Proceedings of 91 <sup>st</sup> Annual Meeting of the AACR #5110, vol. 41, April 2000.
	K4	Ding, Zhenhua et al., "The Investigational New Drug XK469 Induces G <sub>2</sub> -M Cell Cycle Arrest by p53-dependent and – independent Pathways <sup>1</sup> ," Clinical Cancer Research, vol. 7, November 2001, pp. 3336-3342.
	L4	Draetta, Giulio et al., "Activation of cdc2, Protein Kinase during Mitosis in Human Cells: Cell Cycle-Dependent Phosphorylation and Subunit Rearrangement," Cell, vol. 54, July 1, 1988, pp. 17-26.
	M4	Dragnev, Konstantin H. et al., "Cyclin Proteolysis as a Retinoid Cancer Prevention Mechanism," Annals of the New York Academy of Sciences, 2001, 952:13-22.
	N4	Duggan, David J. et al., "Expression profiling using cDNA microarrays," Nature Genetics Supplement, vol. 21, January 1999, pp. 10-14.
	O4	Elbashir, Sayda M. et al, "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," Nature, vol. 411, May 24, 2001, pp. 494-498.
-	P4	Elbashir, Sayda et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs, Genes Dev., 2001, 15:188-200.
	Q4	Elbashir, Sayda et al., "Analysis of gene function in somatic mammalian cells using small interfereing RNAs," Methods, 2002, 26:199-213.

EXAMINER	DATE CONSIDERED	

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date:

Group Art Unit:

8/15/03 (Int'l) Unassigned

 	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
 A5	Ferrari, Mario et al., "MTT colorimetric assay for testing macrophage cytotoxic activity in vitro," J. Immunol. Methods, 1990, 131:165-172.
В5	Fire, Andrew et al., "Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans," Nature, vol. 39, February 19, 1998, pp. 806-811.
C5	Fodor, Stephen P. et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, February 15, 1991, 251:767-773.
D5	Fuchs, Patrick et al., "Targeting Recombinant Antibodies to the Surface of Escherichia Coli: Fusion to a Peptidoglycan Associated Lipoprotein," Bio/Technology, 1991, 9:1370-1372.
 E5	Gait, ed., 1984, "Oligonucleotide Synthesis," IRL Press, Oxford, Table of Contents.
F5	Gerlier, Denis et al, "Use of MTT colorimetric assay to measure cell activation," <u>Journal of Immunological Methods</u> , 1986, <i>J. Immunol. Methods</i> , 94:57-63.
G5	Goldspiel, Barry R. et al., "Human gene therapy," Clinical Pharmacy, vol. 12, July 1993, pp. 488-505.
Н5	Gordon, Jon W., "Transgenic Animals," Int. Rev. of Cytoogy, vol. 115, 1989, pp. 171-229.
15	Gossen, Manfred, et al., "Tight control of gene expression in mammalian cells by tetracycline-responsive promoters," Proc. Natl. Acad. Sci. USA, vol. 89, June 1992, pp. 5547-5551.
J5	Gossen, Manfred <i>et al.</i> , "Transcriptional Activation by Tetracyclines in Mammalian Cells," <u>Science</u> , vol. 268, June 23 1995, pp. 1766-1769.
K5	Grant, Sarah R., "Dissecting the Mechanisms of Posttranscriptional Gene Silencing: Divide and Conquer," Cell, vol. 96, February 5 1999, pp. 303-306.
L5	Gregory, Philip D., "Transcription and chromatin converge: lessons from yeast genetics," <u>Curr. Opin. Genet. Devt.</u> , 2001, 11:142.
M5	Greisman and Pabo, "A General Strategy for Selecting High-Affinity Zinc Finger Proteins for Diverse DNA Target Sites," <a href="Science">Science</a> , vol. 275, January 31, 1997, pp. 275:657.
N5	Griffiths, Andrew D. <i>et al.</i> , "Human anti-self antibodies with high specificity from phage display libraries," <u>EMBO Journal</u> , vol. 12, no. 2, 1993, pp. 725-734.
 O5	Grossman and Wilson, "Retroviruses: delivery vehicle to the liver," Curr. Opin. Genet. And Devel., 1993, 3:110-114.
P5	Gu, Hua et al., "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," Science, vol. 265, July 1 1994, pp. 103-106.
Q5	Guo, Su et al., "par-1, a Gene Required for Establishing Polarity in C. elegans Embryos, Encodes a Putative Ser/Thr Kinase that is Asymmetrically Distributed," Cell, vol. 81, May 19, 1995, pp. 611-620.
R5	Hacia, Joseph G. et al., "Determination of ancestral alleles for human single-nucleotide polymorphisms using high-density oligonucleotide arrays," Nature Genetics, vol. 22, June 1999, pp. 164-167.

EXAMINER	DATE CONSIDERED	

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

 	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
A6	Hanahan, Douglas et al., "Studies on Transformation of Escherichia coli with Plasmids," J. Mol. Biol., 1983, 166:557-580.
В6	Harlow & Lane, eds. 1988, "Antibodies: A Laboratory Manual," Cold Spring Harbor Press, Cold Spring Harbor, NY, Table of Contents
C6	Haseloff, Jim et al., "Simple RNA enzymes with new and highly specific endoribonuclease activities," Nature, vol. 334, August 18, 1988, pp. 585-591.
D6	Hay, Beverly N. et al., "Bacteriophage cloning and Escherichia coli expression of a human IgM Fab," Hum. Antibod. Hybridomas, vol. 3, April 3, 1992, pp. 81-85.
Е6	Hayward, Cheryl M. et al., "Total Synthesis of Rapamycin via a Novel Titanium-Mediated Aldol Macrocyclization Reaction," J. Am. Chem. Soc., 1993, pp. 9345-9346.
F6	Heitman, Joseph et al., "Targets for Cell Cycle Arrest by the Immunosuppressant Rapamycin in Yeast," August 23, 1991, pp. 905-909.
G6	Houghten, Richard et al., "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery," Nature, vol. 354, November 7, 1991, pp. 84-86.
 Н6	http://www.clontech.com/products/literature/pdf/brochures/TetBR.pdf, accessed on May 3, 2002
16	http://www.clontech.com/products/literature/pdf/productlists/tetprodlist.pdf, accessed on May 3, 2002
J6	Huang, Shile et al., "Resistance to rapamycin: A novel anticancer drug," Cancer and Metastasis Rev., 2001, 20:69-78.
 K6	Huang, Shile et al., "p53/p21 <sup>CIP1</sup> Cooperate in Enforcing Rapamycin-induced G <sub>1</sub> Arrest and Determine the Cellular Response to Rapamycin <sup>1</sup> ," Cancer Research, April 15, 2001, 61:3373-3381.
L6	Huse, William D. et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," Science, 1989, 246:1275-1281.
 М6	Huston, James S. et al., "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin signle-chain Fv analogue produced in Escherichia coli," Proc. Natl. Acad. Sci. USA, vol. 85, August 1988, pp. 5879-5883
N6	Innis et al., eds., 1990, "PCR Protocols: A Guide to Methods and Applications," Academic Press, Inc., New York, Table of Contents.
 O6	Inouye and Inouye, "Up-promoter mutations in the <i>lpp</i> gene of <i>Escherichia coli</i> ," vol. 12, no. 9, 1985, pp. 3101-3109.
P6	Ishikawa et al., eds., 1981, "Enzyme Immunoassay," Kgaku Shoin, Tokyo, Table of Contents.
Q6	Izant, Jonathan G. et al., "Inhibition of Thymidine Kinase Gene Expression by Anti-Sense RNA: A Molecular Approach to Genetic Analsyis," Cell, vol. 36, April 1984, 1007-1015.
R6	Janknecht, Ralf et al., "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus," Proc. Natl. Acad. Sci., vol. 88, October 1991, pp. 8972-8976.
 S6	Jun, Doyoun et al., "Characterization of the Murine cdc2 Gene," Mol. Cells, vol. 8, no. 6, 1998, pp. 731-740.

EXAMINER	DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) A7 Kang, Jong Seok et al., "Zinc Finger Proteins as Designer Transcription Factors," J. Biol. Chem., vol. 275, no. 12, March 2000, pp. 8742-8748. **B7** Kang, Dongmin et al., "The checkpoint protein Chfr is a ligase that ubiquitinates Plk1 and inhibits Cdc2 at the G2 to M transition," J. Cell Biol., 2002, pp. 249-260. C7 Kiem, Hans-Peter et al., "Retrovirus-Mediated Gene Transduction into Canine Peripheral Blood Repopulating Cells," Blood, vol. 83, no. 6, March 1994, pp. 1467-1473. **D7** Kikyo, Nobuaki et al, "Active Remodeling of Somatic Nuclei in Egg Cytoplasm by the Nucleosomal ATPase ISWI," Science, vol. 289, September 2000, pp, 2360-2362. Kim and Pabo, "Transcriptional Repression by Zinc Finger Peptides," J. Biol. Chem., vol. 272, no. 47, November 1997, E7 pp, 29795-29800. F7 Kim and Pabo, "Getting a handhold on DNA: Design of poly-zinc finger proteins with femtomolar dissociation constants," Proc. Natl. Acad. Sci. USA, vol. 95, March 1998, pp. 2812-2817. G7 Kim, Jin-Soo et al., "Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression," Proc. Natl. Acad. Sci. USA, April 1997, pp. 3616-3620. H7 Kodo, Hideki et al., "Antibody Synthesis by Bone Marrow Cells in Vitro following Primary and Booster Tetanus Toxoid Immunization in Humans," J. Clin. Invest., vol. 73, May 1984, 1377-1384. 17 Kohler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature, vol. 256, August 1975, pp. 495-497. 17 Koller and Smithies, "Inactivating the  $\beta_2$ -microglobulin locus in mouse embryonic stem cells by homologous recomibination," Proc. Natl. Acad. Sci. USA, November 1989, pp. 8932-8935. K7 Kozbor et al., "The production of monoclonal antibodies from human lymphocytes," Immunology Today, vol. 4, no. 3, 1983, pp. 72-79. L7 Kozarsky and Wilson, "Gene therapy: adenovirus vectors," Current Opinion in Genetics and Development, 1993, pp. 499-M7 Kriegler, 1990, "Gene Transfer and Expression, A Laboratory Manual," Stockton Press, New York, Table of Contents. N7 Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," Nature, vol. 354, November 1991, pp. 82-84. 07 Lasko et al., "Targeted oncogene activation by site-specific recombination in transgenic mice," Proc. Natl. Acad. Sci. USA, vol. 89, July 1992, pp. 6232-6236. **P7** Lavitrano et al., "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice," Cell, vol. 57, June 1989, pp. 717-723. Lee et al., "Complementation used to clone a human homologue of the fission yeast cell cycle control gene cdc2," Nature, Q7 vol. 327, May 1987, pp. 31-35.

**EXAMINER** 

DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit:

Unassigned

 	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
A8	Lewis et al., "Efficient delivery to siRNA for inhibition of gene expression in postnatal mice," Nat. Genetics, vol., 21, September 2002, 107-108.
В8	Li et al., "tsg101: A Novel Tumor Susceptibility Gene Isolated by Controlled Homozygous Functional Knockout of Allelic Loci in Mammalian Cells," Cell, vol. 85, May 1996, pp. 319-329.
C8	Liu et al., "Design of polydactyl zinc-finger proteins for unique addressing within complex genomes," Proc. Natl. Acad. Sci. USA, vol. 94, May 1997, pp. 5525-5530.
D8	Liu et al., "Regulation of an Endogenous Locus Using a Panel of Designed Zinc Finger Proteins Targeted to Accessible Chromatin Regions," J. Biol. Chem., vol. 276, no. 14, April 2001, pp. 11323-11334.
E8	Llewellyn et al., "Structure and Expression of an Alcohol Dehydrogenase 1 Gene from Pisum sativum (cv. "Greenfeast"),"  J. Mol. Biol., 195:115-123.
F8	Lo, Cecilia W., "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations Without Tandem Insertions," Molecular and Cellular Biology, vol. 3, no. 10, Octobeer 1983, pp. 1803-1814.
G8	Lockhart <i>et al.</i> , "Expression monitoring by hybridization to high-density oligonucleotide arrays," <u>Nature Biotechnology</u> , vol. 14, December 1996, pp. 1675-1680.
Н8	Loeffler and Behr, "Gene Transfer into Primary and Established Mammalian Cell Lines with Lipopolyamine-Coated DNA," Meth. Enzymol., vol. 217, 1993, pp. 599-618.
18	Logan and Shenk, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 81, June 1984, pp. 3655-3659.
Ј8	Lowy et al., "Isolation of Transforming DNA: Cloning the Hamster aprt Gene," Cell, vol. 22, December 1980, pp. 817-823.
K8	Maggio, ed., 1980, "Enzyme Immunoassay," CRC Press, Boca Raton, FL, Table of Contents.
L8	Mastrangeli et al., "Diversity of Airway Epithelial Cell Targets for In Vivo Recombinant Adenovirus-mediated Gene Transfer," Clin. Invest., vol. 91, January 1993, pp. 225-234.
M8	McCaffrey et al., "RNA interference in adult mice," Nature, 2002, pp. 38-39.
N8	McGall et al., "Light-directed synthesis of high-density oligonucleotide arrays using semiconductor photoresists," Proc. Natl. Acad. Sci. USA, vol. 93, November 1996, pp. 13555 –13560.
O8	Miller et al., "Use of Retroviral Vectors for Gene Transfer and Expression," Meth. Enzymol., vol. 217, 1993, pp. 581-599.
P8	Mills et al., "Linking molecular therapeutics to molecular diagnostics: Inhibition of the FRAP/RAFT/TOR component of the P13K pathway preferentially blocks PTEN mutant cells in vitro and in vivo," Proc. Natl. Acad. Sci. USA, August 2001, pp. :10031-10033.
Q8	Morgan and Anderson, "Human Gene Therapy <sup>1</sup> ," Ann. Rev. Biochem, 1993, 62:191-217.
R8	Morrison et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," Proc. 1984, Proc. Natl. Acad. Sci. USA, 81:6851-6855.

EXAMINER DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
A9	Mosmann, "Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays," J. Immunological Methods, 1983, 65:55-63.
В9	Mulligan and Berg, "Selection for animal cells that express the <i>Escherichia coli</i> gene coding for xanthine-guanine phosphoribosyltransferase," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 78, no. 4, April 1981, pp. 2072-2076.
C9	Mulligan, "The Basic Science of Gene Therapy," Science, vol. 260, May 1993, pp. 926-932.
D9	Neshat <i>et al.</i> , "Enhanced sensitivity of PTEN-deficient tumors to inhibition of FRAP/mTOR," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 98, no. 18, August 2001, pp. 10314-10319.
Е9	Neuberger et al., "Recombinant antibodies possessing novel effector functions," Nature, vol. 312, December 1984, pp. 604-608.
F9	Nicolaou et al., "Total Synthesis of Rapamycin," J. Am. Chem. Soc., 1993, pp. 4419-4420.
G9	North et al., "Regulation of cdc2 gene expression by the upstream stimulatory factors (USFs)," Oncogene, 1999, pp. 1945-1955.
Н9	Nuovo, 1992, "PCR in Situ Hybridization: Protocols and Applications," Raven Press, New York, Table of Contents.
19	O'Hare et al., "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase," <a href="Proc. Natl. Acad. Sci. USA">Proc. Natl. Acad. Sci. USA</a> , vol. 78, no. 3, March 1981, pp. 1527-1531.
19	Ohno et al., "Rapid colorimetric assay for the quantification of leukemia inhibitory factor (LIF) and interleukin-6 (IL-6)," J. Immunol. Methods, 1991, 145:199-203.
К9	Paddison et al., "Short hairpin RNAs (shRNAs) induce sequence-specific silencing in mammalian cells," Genes & Dev., 2002, 16:948-958.
L9	Paddison et al., "Stable suppression of gene expression by RNAi in mammalian cells," Proc. Natl. Acad. USA, February 2002, vol. 99, no. 3, pp. 1443-1448.
М9	Pavletich and Pabo, "Zinc Finger-DNA Recognition: Crystal Structure of a Zif268-DNA Complex at 2.1 Å," Science, May 1991, 252:809-817.
N9	Pease et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," Proc. Natl. Acad. Sci. USA, vol. 91, May 1994, pp. 5022-5026.
09	Petcherski <i>et al.</i> , "LAG-3 is a putative transcriptional activatore in the <i>C. elegans</i> Notch pathway," Nature, vol. 405, May 2000, pp. 364-368.
Р9	Pines et al., "Isolation of a Human Cyclin cDNA: Evidence for Cyclin mRNA and Protein Regulation in the Cell Cycle and for Interaction with p34 <sup>cdc2</sup> ," Cell, vol. 58, September 1989, pp. 833-846.
Q9	Pittelkow and Scott, "New Techniques for the In Vitro Culture of Human Skin Keratinocytes and Perspectives on Their Use for Grafting of Patients with Extensive Burns," Mayo Clinic Proc., October 1986, vol. 61, pp. 771-777.
R9	Platt, "Independent Regulation of Adipose Tissue-specificity and Obesity Response of the Adipsin Promotor in Transgenic Mice*," J. Biol. Chem., vol. 269, no. 46, November, 1994, pp. 28558-28562.

EXAMINER		

DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
A10	Podsypanina et al., "An inhibitor of mTOR reduces neoplasia and normalizes p70/S6 kinase activity in Pten <sup>+/-</sup> mice," Proc. Natl. Acad. Sci., USA, vol. 98, no. 18, August 2001, pp. 10320-10325.
B10	Poggioli <i>et al.</i> , "Reovirus-Induced σ1s-Dependent G <sub>2</sub> /M Phase Cell Cycle Arrest is Associated with Inhibition of p34 <sup>cdc2</sup> ," J. Virol., vol. 75, no. 16, August 2001, pp. 7429-7434.
C10	Rebar and Pabo, "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities," Science, vol. 263, February 1994, pp. 263:671.
D10	Rheinwald, "Serial Cultivation of Normal Human Epidermal Keratinocytes," Meth. Cell Bio., vol. 21A, 1980, pp. 229-254.
E10	Rhodes and Klug, "Zinc Fingers," Scientific American, February 1993, pp. 269:56.
F10	Robertson and Wolffe, "DNA Methylation in Health and Disease," Nature Review, vol. 1, October 2000, pp. 11-19.
G10	Robinson, "Gen therapy – proceeding from laboratory to clinic," Biotechnology, ref. Edition, vol. 11, 1993, <i>TIBTECH</i> , 11(5):155-215.
H10	Rosenfeld <i>et al.</i> , "Adenovirus-Mediated Transfer of a Recombinant α1-Antitrypsin Gene to the Lung Epithelium in Vivo," Science, April 1991, 252:431-434.
110	Rosenfeld et al., "In Vivo Transfer of the Human Cystic Fibrosis Transmembrane Conductance Regulator Gene to the Airway Epithelium," Cell, vol. 68, January 1992, pp. 143-155.
J10	Rosesnberg <i>et al.</i> , "Production of phenocopies by <i>Krüppel</i> antisense RAN injection in <i>Drosophila</i> embryos," <u>Nature</u> , vol. 313, February 1985, pp. 703-706.
K10	Rubinson et al., "A lentivirus-based system to functionally silence genes in primary mammalian cells, stem cells and transgenic mice by RNA interference," Nature Genetics, vol. 33, March 2003, pp. 401-406.
L10	Ruther et al., "Easy identification of cDNA clones," EMBOJ, vol. 2, no. 10, 1983, 2:1791-1794.
M10	Sabers et al., "Isolation of a Protein Target of the FKBP12-Rapamycin Complex in Mammalian Cells*," J. Biol. Chem., vol. 270, no. 2, January 1995, pp. 815-822.
N10	Salmons and Gunzberg, "Targeting of Retroviral Vectors for Gene Therapy," Human Gene Therapy, 1993, 4:129-141.
010	Sambrook et al., 1989, "Molecular Cloning. A Laboratory Manual," Cold Springs Harbor Press, Cold Springs Harbor, New York, Table of Contents.
P10	Santerre et al., "Expression of prokaryotic genese for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells," Gene, 1984, 30:147.
Q10	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," Proc. Natl. Acad. Sci. USA, vol. 93, October 1996, pp. 10614-10619.
R10	Sehgal et al., ""Rapamycin: A Novel Immunosuppressive Macrolide," Medicinal Research Review, 1994, 14:1-22.
\$10	Shalon et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-color Fluorescent Probe Hybridization," Genome Res., 1996, 6:639-645.

EXAMINER DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Shintani et al., "Expression of cell cycle control proteins in normal epithelium, premalignant and malignant lesions of oral cavity," Oral Oncol., 2002, 38:235-243.
Smith et al., "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Delection Mutations Within the Polyhedrin Gene," J. Viro., vol. 46, no. 2, May 1983, pp. 584-593.
Smits et al., "Checking out the G <sub>2</sub> /M transition," Biochem. Biophys. Acta., 2001, 1519:1-12.
Song et al., "RNA interference targeting Fas protects mice from fulminant hepatitis," Nat. Medicine, vol. 9, no. 3, March 2003, 9:347-351.
Songyang et al., "SH2 Domains Recognize Specific Phosphopeptide Sequences," Cell, vol. 72, March 1993, pp. 767-778.
Sorensen et al., "Gene Silencing by Systemic Delivery of Synthetic siRNAs in Adult Mice," J. Mol. Biol., 2003, 327:761-766.
Stemple and Anderson, "Isolation of a Stem Cell for Neurons and Glia from the Mammalian Neural Crest," vol. 71, December 1992, pp. 973-985.
Sui et al., "A DNA vector-based RNAi technology to suppress gene expression in mammalian cells," Proc. Natl. Acad. Sci. USA, April 2002, pp. 5515-5520.
Szybalska and Szybalski, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait," Natl. Acad. Sci. USA, 1962, 48:2026.
Tabara et al., "The rde-1 Gene, RNA Interference, and Transposon Silencing in C. elegans," Cell, vol. 99, October 1999, pp. 123-132.
Takeda et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences," Nature, 1985, Nature, 314:452-454.
Thompson et al., "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Trageting in Embryonic Stem Cells," Cell, vol. 56, January 1989, pp. 313-321.
Tiscornia et al., "A general method for gene knockdown in mice by using lentiviral vectors expressing small interfering RNA," Proc. Natl. Acad. Sci. USA, February 2003, 100:1844-1848.
Tolstoshev, "Gene Therapy, Concepts, Current Trials and Future Directions," Ann. Rev. Pharmacol. Toxicol., 1993, 32:573-596.
van de Loosdrechet, et al., "A tetrazolium-based colorimetric MTT assay to quantitate human monocyte mediated cytotoxicity against leukemic cells from cell lines and patient with acute myeloid leukemia," J. Immunol. Methods, 1994, 174:311-320.
Van der Putten <i>et al.</i> , "Efficient insertion of genes into the mouse germ line via retroviral vectors," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 82, September 1985, pp. 6148-6152.
Van Heeke and Schuster, "Expression of Human Asparagine Synthetase in <i>Escherichia coli</i> ," J. Biol. Chem., vol. 264, no. 10, Aprl 1989, pp. 5503-5509.

<b>EXAMINER</b>	

DATE CONSIDERED

Docket Number:

Application Number:

70017.0011USWO

10/524,426

Applicant: Limin LI, et al.

Filing Date: 8/15/03 (Int'l)

Group Art Unit: Unassigned

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
A12	Voller et al., "Enzyme immunoassays with special reference to ELISA techniques," J. Clin. Pathol., February 1978, 31:507-520.
B12	Walsh et al., "Gene Therapy for Human Hemoglobinopathies," Proc. Soc. Exp. Biol. Med., 1993, 204:289-300.
C12	Wang and Pabo, "Dimerization of zinc fingers mediated by peptides evolved <i>in vitro</i> from random sequences," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 96, August 1999, pp. 9568-9573.
D12	Wang et al., "Large-Scale Identification, Mapping and Genotyping of Single-Nucleotide Polymorphisms in the Human Genome," Science, vol. 280, May 1998, pp. 1077-1082.
E12	Ward et al., "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli," Nature, vol. 341, October 1989, pp. 544-546.
F12	Wigler et al., "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells," Cell, vol. 11, May 1977, pp. 223-232.
G12	Wigler <i>et al.</i> , "Transformation of mammalian cells with an amplifiable dominant-acting gene," <u>Proc. Natl. Acad. Sci. USA</u> , vol. 77, no. 6, June 1980, pp.3567-3570.
Н12	Witlock and Witte, "Long-term culture of B lymphocytes and their precursors from murine bone marrow," Proc. Natl. Acad. Sci. USA, vol. 79, June 1982, pp. 3608-3612.
112	Wu and Wu, "Receptor-mediated in Vitro Gene Transformation by a Soluble DNA Carrier System*," J. Biol. Chem., vol. 262, no. 10, April 1987, pp. 4429-4432.
J12	Wu and Wu, "Delivery systems for Gene therapy," Biotherapy, 1991, 3:87-95.
 K12	Xia et al., "siRNA-mediated gene silencing in vitro and in vivo," Nat. Biotech., vol. 20, October 2002, pp. 1006-1010.
 L12	Xia et al., "LATS1 tumor suppressor regulates G2/M transition and apoptosis," Oncogene, 2002, 21:1233-1241.
M12	Yu et al., "mTOR, a novel target in breast cancer: the effect of CCI-779, an mTOR inhibitor, in preclinical modes of breast cancer," Endocrine-Related Cancer, 2001, 8:249-258.
N12	Yu et al., "Deregulated P13k/AKT/TOR Pathway in PTEA-Deficient Tumor Cells Correlates with an Increased Growth Inhibition Sensitivity to a TOR Kinase Inhibitor CC1-779," Proceedings of 92 <sup>nd</sup> Annual Meeting of the AACR #4305, vol. 42, March 2001.
O12	Yun et al., "p53 Negatively Regulates cdc2 Transcription via the CCAAT-binding NF-Y Transcription Factor*," J. Biol. Chem., vol. 274, no. 42, October 1999, pp. 29677-29682.
P12	Zamore et al., "RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals," Cell, vol. 101, March 2000, pp. 25-33.
 Q12	Zaug and Cech, "The Intervening Sequence RNA of Tetrahymena is an Enzyme," Science, vol. 231, 1986, pp. 470-475.
 R12	Zaug et al., "A Labile Phosphodiester Bond at the Ligation Junction in a Circular Intervening Sequence RNA," Science, vol. 224, 1984, 574-578.

EX	ΔA	ALL	чE	o

DATE CONSIDERED

Docket Number: Application Number: 70017.0011USWO 10/524,426

Applicant: Limin LI, et al.

Filing Date: Group Art Unit: 8/15/03 (Int'l) Unassigned

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
A13	Zaug et al., "The Tetrahymean ribozyme acts like an RNA restriction endonuclease," Nature, vol. 324, December 1986, pp. 429-433.
 B13	Zhang <i>et al.</i> , "Synthetic Zinc Finger Transcription Factor Action at an Endogenous Chromosomal Site," <u>J. Biol. Chem.</u> , vol. 275, no. 43, October 2000, pp. 33850-33860.
C13	Zijlstra <i>et al.</i> , "Germ-line transmission of a disrupted β <sub>2</sub> -microglobulin gene produced by homologous recombination in embryonic stem cells," Nature, vol. 342, November 1989, pp. 435-438.
 <u>-</u>	

EXAMINER	DATE CONSIDERED